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CENTRAL FAX CENTER****AUG 13 2007**IN THE ABSTRACT

Please substitute the current Abstract with the following text:

The present invention relates to systems and methods for solving systems of linear equations. Illustrative embodiments of this invention include methods for solving a system of  $N$  linear equations in  $N$  unknown variables. Typically, such methods include the steps of storing an estimate value for each unknown variable; initializing each estimate value to a predetermined value; determining whether a respective predetermined condition is satisfied for each estimate value; and then updating the estimate if and only if the respective predetermined condition is satisfied. In such methods, the determining and updating steps can then be repeated until each estimate value is sufficiently close to an accurate value of the respective unknown variable.